

NAME AND SURNAME: Biljana Potparevic

Employment Information:

- 2012- Full Professor of Biology with Human Genetics, University of Belgrade-Faculty of Pharmacy
- 2006-2012. Associate Professor of Biology with Human Genetics, University of Belgrade-Faculty of Pharmacy
- 2000-2006. Assistant Professor of Biology with Human Genetics, University of Belgrade-Faculty of Pharmacy
- 1993-2000. Assistant for Biology with Human Genetics, University of Belgrade-Faculty of Pharmacy
- 1990-1992 Volunteer work at the National Institute of Oncology and Radiology of Serbia, Laboratory for Experimental Oncology
- 2013-2014 Visiting Professor at the University of Business Engineering and Management Banja Luka, Department of Psychology, subject Behavioral Genetics

Education:

- 1999 PhD of Biological Sciences (Human Genetics), University of Belgrade-Faculty of Biology
- 1992 MS of Biological Sciences (Human Genetics), University of Belgrade-Faculty of Biology
- 1990 Undergraduate studies, University of Belgrade-Faculty of Biology, study group Biology
- 1984 Zvezdara Medical School, laboratory assistant for microbiology

Improvement:

- 2019 Education for improving the teacher competencies of teachers and associates, improving the appropriate relationship with students and the rules of business communication (University of Belgrade-Faculty of Pharmacy)
- 2014 Intensive and interactive course "Introduction to translational research", Cologne, Germany
- 1998 training in Fluorescent in situ hybridization (FISH), Laboratory for Human Genetics, Institute of Molecular Genetics and Genetic Engineering, University of Belgrade, Serbia
- 1996 PCR training, Institute of Molecular Genetics and Genetic Engineering, University of Belgrade, Serbia

Scholarships and awards

- 2002 Award of the Ministry of Education, Science and Technological Development of the Republic of Serbia for the most successful young scientists.

Teaching work:

- Integrated academic studies

Biology with human genetics (study program - pharmacy and study program - pharmacy-medical biochemistry) compulsory subject, responsible teacher

Basic of Molecular Genetics (study program in pharmacy) elective course, responsible teacher

- Doctoral academic studies, elective course Investigations of genomic instability in *in vivo* and *in vitro* systems
- Specializations of health workers and health associates; study program Medical Biochemistry, course Genetics

Mentoring / participation in commissions for evaluation, preparation and defense of doctoral dissertations and final theses

- Mentor of three defended doctoral dissertations
- Member of the commission of two defended doctoral dissertations
- Mentor of one defended master's thesis
- Mentor and member of the commission for the preparation and defense of a number of final papers

Teaching literature:

- Mirjana Hristić, Biljana Potparević (1997) Practicum in Biology with Human Genetics. University of Belgrade-Faculty of Pharmacy
- Biljana Potparević, Lada Živković (2011) Practicum in Biology with Human Genetics. University of Belgrade-Faculty of Pharmacy, 2nd edition 2014

Activities at the Faculty:

- 2021- Head of the Department of Pathobiology
- Responsible teacher for the subjects: Biology with Human Genetics and Fundamentals of Molecular Genetics
- Initiator of the establishment of the Center for Biological Research in 2014.
- Head of the Center for Biological Research
- One of the teachers responsible for preparing test questions for taking the entrance exam in biology at the Faculty of Pharmacy
- Previous participation in commissions at the Faculty of Pharmacy, University of Belgrade:
Member of the Council
Member of the Publishing Commission
Member of the Ethical Committee for Biomedical Research
Member of the Statutory Commission

Activities within the wider academic community:

- 2020 - still a member of the Council of Scientific Areas of Natural Sciences of the University of Belgrade

Membership in scientific societies

- Genetic Society of Serbia; section on medical genetics and section on mutagenesis and genotoxicology
- Serbian Association for Alzheimer's disease
- Serbian Neuroscience Society
- European Society for Environmental Mutagens and Genomics (EEMGS)
- International Comet Test Working Group (ICAWG)
- World Association for Chromosome Segregation and Aneuploidy

Reviewer in the following journals (most important) •

- Experimental Gerontology
- Journal of Alzheimer's disease
- Experimental Neurology
- Frontiers in Genetics
- Medical Hypotheses
- Mutation Research- Genetic Toxicology and Environmental Mutagenesis
- Oxidative Medicine and Cellular Longevity
- Food and Chemical Toxicology
- Drug and Chemical Toxicology
- Molecules
- Chemosphere
- *In vitro* toxicology
- Toxicology Reports
- Phytotherapy Research
- Molecular Biology Reports
- Food and Function
- Free Radical Biology and Medicine
- International Journal of Biological Macromolecules

- Balkan Journal of Medical Genetics
- Acta Veterinaria
- Genetics

Other activities

- Member and supervisor of the team for development and preparation of tasks for final exams, as well as instruments, manuals and materials with content and procedures for final exams of the of the State Matura, Ministry of Education, Science and Technological Development, EU-funded project

Projects

- 2021 “Evaluation of antigenotoxic activity of Biodihydroquercetin (Taxifolin) in the presence of hydrogen peroxide on human peripheral lymphocytes in vitro” leader, the Serbian Innovation Fund grantas an Innovation voucher No 855 for use by “Azeco”Belgrade
- 2019- Stem cells of marine/aquatic invertebrates: from basic research to innova-tive applications CA16203, COST akcija MS substitute
- 2018- Cancer nanomedicine - from the bench to the bedside, CA17140 COST , MC member
- 2016-2020 The comet assay as a human biomonitoring tool (hCOMET), CA15132 COST MC member
- 2016-2018 “Anti-atherosclerotic effects of dry olive life extract” Researcher in Scientific project bilateral cooperation between R Serbia and R Slovenia
- 2013-2015 “Cell cycle aberrations and oxidative stress in age related neuro-degenerative diseases: The role of food antioxidants” Leader in Scientific project bilateral cooperation between Italy and Serbia
- 2011-2019 “Aberrations of the cell cycle and influence of the oxidative stress on neurodegenerative processes and malignant transformation of the cell” Leader in the project funded by Serbian Ministry for Science and Education OI 173034,
- 2006-2010 “Evaluation of the effects of hormones and cytostatics using cytogetic analysis and the Comet assay”) Researcher in the project funded by Serbian Ministry of Science and Environmental Protection 143018B
- 2005-2006 “Influence of microcystines, oestrogens and thyroid hormones on cy-togenetic changes and DNA damage in cultured human lymphocytes and HepG2 cells” Researcher in Scientific project bilateral cooperation between Slovenia and Serbia
- 2002-2005 “Evaluation of cytogenetic effects of some hormones, cytostatics and antibiotics” Researcher in the project funded by Serbian Ministry of Science, Technology and Development 10-1873

Publications:

- Bruic M, Grujic-Milanovic J, Miloradovic Z, Jovovic D, Zivkovic L, Mihailovic-Stanojevic N, Karanovic D, Spremo-Potparevic B. DNA, protein and lipid oxidative damage in tissues of spontaneously hypertensive versus normotensive rats. *Int J Biochem Cell Biol.* 2021 Dec;141:106088. doi: 10.1016/j.biocel.2021.106088. Epub 2021 Oct 1. PMID: 34601089.
- Bajic VP, Essack M, Ivkovic L, Stewart A, Zafirovic S, Bajic VB, Gojobori T, Isenovic E, Spremo-Potparevic B. The X Files: "The Mystery of X Chromosome Instability in Alzheimer's Disease".

Front Genet. 2020 Jan 28;10:1368. doi: 10.3389/fgene.2019.01368. PMID: 32047510; PMCID: PMC6997486.

- Čabarkapa A, Dekanski D, Živković L, Milanović-Čabarkapa M, Bajić V, Topalović D, Giampieri F, Gasparini M, Battino M, Spremo-Potparević B. Unexpected effect of dry olive leaf extract on the level of DNA damage in lymphocytes of lead intoxicated workers, before and after CaNa₂EDTA chelation therapy. *Food Chem Toxicol.* 2017 Aug;106(Pt B):616-623. doi: 10.1016/j.fct.2016.12.023. Epub 2016 Dec 21. PMID: 28011361.
- Bozovic A, Davidovic R, Zivkovic L, Cabarkapa A, Spremo-Potparevic B. Skewed X-chromosome inactivation in women affected by Alzheimer's disease. *J Alzheimers Dis.* 2015;43(4):1251-9. doi: 10.3233/JAD-141674. PMID: 25159673.
- Bajic V, Spremo-Potparevic B, Zivkovic L, Isenovic ER, Arendt T. Cohesion and the aneuploid phenotype in Alzheimer's disease: A tale of genome instability. *Neurosci Biobehav Rev.* 2015 Aug;55:365-74. doi: 10.1016/j.neubiorev.2015.05.010. Epub 2015 May 21. PMID: 26003528.
- Spremo-Potparevic B, Bajic V, Perry G, Zivkovic L. Alterations of the X Chromosome in Lymphocytes of Alzheimer's Disease Patients. *Curr Alzheimer Res.* 2015;12(10):990-6. doi: 10.2174/1567205012666151027124154. PMID: 26502819.
- Živković L, Spremo-Potparević B, Plečas-Solarović B, Djelić N, Očić G, Smiljković P, Siedlak SL, Smith MA, Bajić V. Premature centromere division of metaphase chromosomes in peripheral blood lymphocytes of Alzheimer's disease patients: relation to gender and age. *J Gerontol A Biol Sci Med Sci.* 2010; 65(12):1269-74.
- Spremo-Potparević B, Zivković L, Djelić N, Plečas-Solarović B, Smith MA, Bajić V. Premature centromere division of the X chromosome in neurons in Alzheimer's disease. *J Neurochem.* 2008 Sep;106(5):2218-23. doi: 10.1111/j.1471-4159.2008.05555.x. Epub 2008 Jul 9. PMID: 18624923; PMCID: PMC2746937.
- Živković L, Spremo-Potparević B, Djelić N, Bajić V. (2006) Analysis of premature centromere division (PCD) of the chromosome 18 in peripheral blood lymphocytes in Alzheimer disease patients. *Mech Ageing Dev.* 127(12):892-6.
- Spremo-Potparevic B, Zivkovic L, Djelic N, Bajic V. Analysis of premature centromere division (PCD) of the X chromosome in Alzheimer patients through the cell cycle. *Exp Gerontol.* 2004 May;39(5):849-54. doi: 10.1016/j.exger.2004.01.012. PMID: 15130680.

